

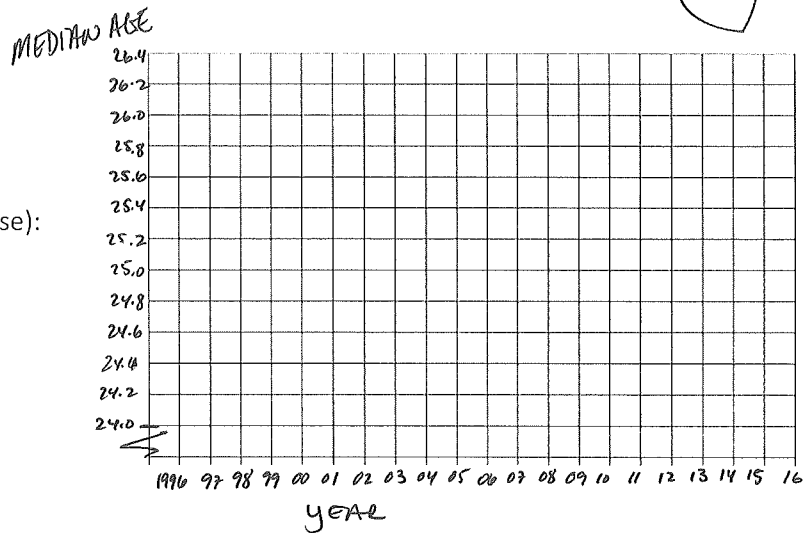
1. From the given set of data, make a scatterplot.

Median age of females when they were first married

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Median Age	24.8	25.0	25.0	25.1	25.1	25.1	25.3	25.3	25.3	25.5	25.9



- Before you make the scatterplot, what kind of trend do you see over the years?
- Identify the independent variable:
- Identify the dependent variable:
- Now make the scatterplot (label axes please):

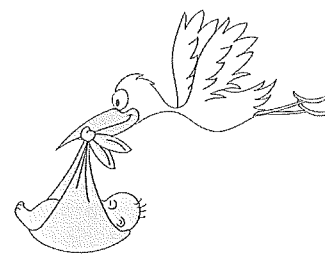


- Plot a line of best fit; identify the slope, y-intercept, and write the equation that fits it.
- Interpret in the context, the meaning of the slope and y-intercept.
- Use your line of best fit to predict what the median age of females when they are first married will be in 2016.

2. From the given set of data, make a scatterplot.

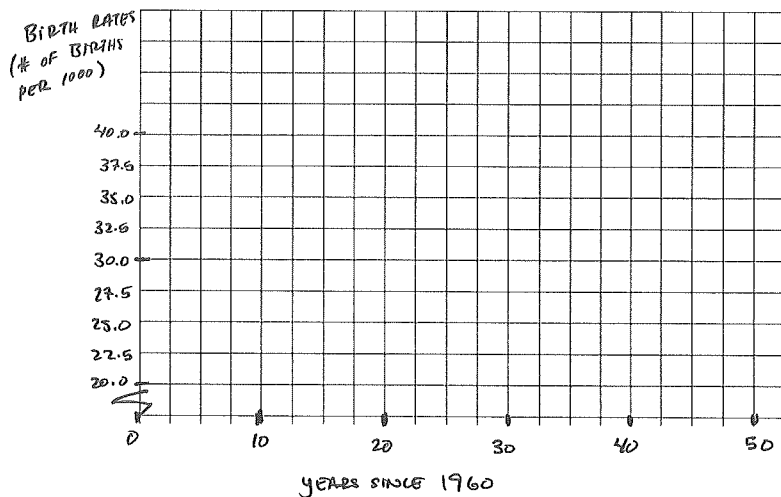
World birth rates y (number of ^{BIRTHS} per 1000), x years since 1960

x	0	10	20	30	40	50
y	35.4	33.6	28.3	27.0	22.4	20.0



- Before you make the scatterplot, what kind of trend do you see over the years?

- Identify the independent variable:
- Identify the dependent variable
- Now make the scatterplot (label axes please):



- Plot a line of best fit; identify the slope, y -intercept, and write the equation that fits it.

- Interpret in the context, the meaning of the slope and y -intercept.

- Use your equation for the line of best fit to predict the birth rate in 2030.

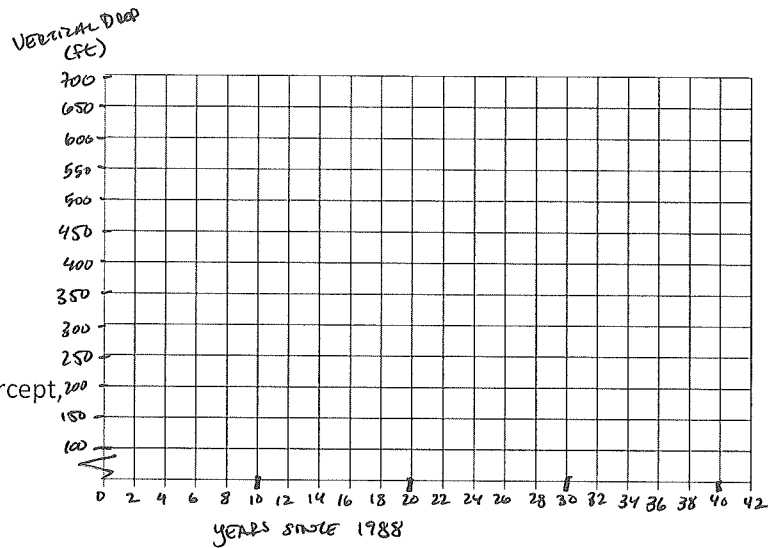
- Use your equation for the line of best fit to predict the birth rate in 1950.

3. The table shows the largest vertical drops of 9 roller coasters in the United States and the number of years after 1988 that they opened.

Roller Coasters

Years since 1988	1	3	5	8	12	12	12	13	15
Vertical Drop (ft)	151	155	225	230	306	300	255	255	400

- Before you make the scatterplot, what kind of trend do you see?
- Identify the independent variable:
- Identify the dependent variable:
- Now make the scatterplot (label axes please):



- Plot a line of best fit; identify the slope, y-intercept, and write the equation that fits it.
- Interpret in the context, the meaning of the slope and y-intercept.

- Use your line of best fit to predict the vertical drop on a roller coaster built 30 years after 1988.

